CONTENTS

Volume 57 · Number 1 · 1989

RESEARCH ARTICLES

Gosselin, S., Fortier, L., Gagné, J. A.
Vulnerability of marine fish larvae to the toxic dinoflagellate *Protogonyaulax tamarensis* 1–10

Estep, K. W., MacIntyre, F.
Taxonomy, life cycle, distribution and dasmotrophy of *Chrysochromulina:* a theory accounting for scales, haptonema, muciferous bodies and toxicity 11–21

Gallegos, C. L.
Microzooplankton grazing on phytoplankton in Rhode River, Maryland: nonlinear feeding kinetics 23–33

Nawrocki, M. P., Karl, D. M.
Dissolved ATP turnover in the Bransfield Strait, Antarctica during a spring bloom 35–44

Rüger, H.-J.
Benthic studies of the northwest African upwelling region: psychrophilic and psychrotrophic bacterial communities from areas with different upwelling intensities 45–52

Torréton, J.-P., Guiral, D., Arfi, R.
Bacterioplankton biomass and production during destratification in a monomictic eutrophic bay of a tropical lagoon 53–67

Vanzella, A., Guerrero, M. A., Jones, R. D.
Effect of CO and light on ammonium and nitrite oxidation by chemolithotrophic bacteria 69–76

Clancy, M., Epifanio, C. E.
Distribution of crab larvae in relation to tidal fronts in Delaware Bay, USA 77–82

Jayakody, D. S.
Size at onset of sexual maturity and onset of spawning in female *Panulirus homarus* (Crustacea: Decapoda: Palinuridae) in Sri Lanka 83–87

Zajac, R. N., Whitlatch, R. B.
Natural and disturbance-induced demographic variation in an infaunal polychaete *Nephtys incisa* 89–102

Volume 57 · Number 2 · 1989

RESEARCH ARTICLES

Radtke, R. L., Targett, T. E., Kellermann, A., Bell, J. L., Hill, K. T.
Antarctic fish growth: profile of *Trematomus newnesi* 103–117

Kaartvedt, S.
Retention of vertically migrating suprabenthic mysids in fjords 119–128

Paffenhöfer, G.-A., Lewis, K. D.
Feeding behavior of nauplii of the genus *Eucalanus* (Copepoda, Calanoida) 129–136

Fleeger, J. W., Shirley, T. C., Ziemann, D. A.
Meiofaunal responses to sedimentation from an Alaskan spring bloom. I. Major taxa 137–145

Ojeda, F. P., Dearborn, J. H.
Community structure of macroinvertebrates inhabiting the rocky subtidal zone in the Gulf of Maine: seasonal and bathymetric distribution 147–161

Keough, M. J.
Dispersal of the bryozoan *Bugula neritina* and effects of adults on newly metamorphosed juveniles 163–171

Hoegh-Guldberg, O., Smith, G. J.
Influence of the population density of zooxanthellae and supply of ammonium on the biomass and metabolic characteristics of the reef corals *Seriatopora hystrix* and *Stylophora pistillata* 173–186

REVIEW

Thresher, R. E., Brothers, E. B.
Evidence of intra- and inter-oceanic regional differences in the early life history of reef-associated fishes 187–205

Volume 57 · Number 3 · 1989

RESEARCH ARTICLES

Fuhrman, J. A., Sleeter, T. D., Carlson, C. A., Proctor, L. M.
Dominance of bacterial biomass in the Sargasso Sea and its ecological implications 207–217

Shapiro, L. P., Campbell, L., Haugen, E. M.
Immunochemical recognition of phytoplankton species 219–224

Bhosle, N. B., Sawant, S. S., Sankaran, P. D., Wagh, A. B.
Sedimentation of particulate material in stratified and nonstratified water columns in the Bombay High area of the Arabian Sea 225–236

Lomstein, B. Aa., Blackburn, T. H., Henriksen, K.
Aspects of nitrogen and carbon cycling in the northern Bering Shelf sediment. I. The significance of urea turnover in the mineralization of NH_4^+ 237–247

Adams, N. J., Brown, C. R.
Dietary differentiation and trophic relationships in the sub-Antarctic penguin community at Marion Island 249–258

Christy, J. H.
Rapid development of megalopae of the fiddler crab *Uca pugilator* reared over sediment: implications for models of larval recruitment 259–265

Forward, R. B., Jr, Wellins, C. A., Buswell, C. U.
Behavioral responses of larvae of the crab *Neopanope sayi* to hydrostatic pressure 267–277

Costello, J. H., Kremer, P. M.
Circadian rhythmicity in the location of zooxanthellae of the scyphomedusa *Linuche unguiculata* 279–286

Perry, D. M., Brusca, R. C.
Effects of the root-boring isopod *Sphaeroma peruvianum* on red mangrove forests 287–292

REVIEW

Vermeij, G. J.
Interoceanic differences in adaptation: effects of history and productivity 293–305

NOTE

Bihari, N., Najdek, M., Floris, R., Batel, R., Zahn, R. K.
Sediment toxicity assessment using bacterial bioluminescence: effect of an unusual phytoplankton bloom 307–310